

# UNIQUE IDENTIFICATION (UID)



## **Unique Identification (UID) of Tangible Items**



# DoD Vision for Item Marking

---

## Agenda

- DOD Vision
- Strategic Purpose
- Key Terms
- Data Content
- Way Ahead



# DoD Vision for Item Marking

---

To create a policy establishing a strategic imperative for uniquely identifying tangible items relying to the maximum extent practical on international standards and commercial item markings and while not imposing unique government data requirements.

Uniquely identified (UID) tangible items will facilitate item tracking in DoD business systems and provide reliable and accurate data for management, financial, accountability and asset management purposes.



# Strategic Purpose of UID is to...

---

- Integrate item data across government and industry asset management systems, resulting in:
  - Improved data quality and global interoperability
  - Rationalization of systems and infrastructure
- Improve item management and accountability
- Improve asset visibility and life-cycle management through life cycle traceability
- Enable more accurate audit opinions on the property, plant, and equipment and operating materials and supplies portions of financial



# Efforts Underway

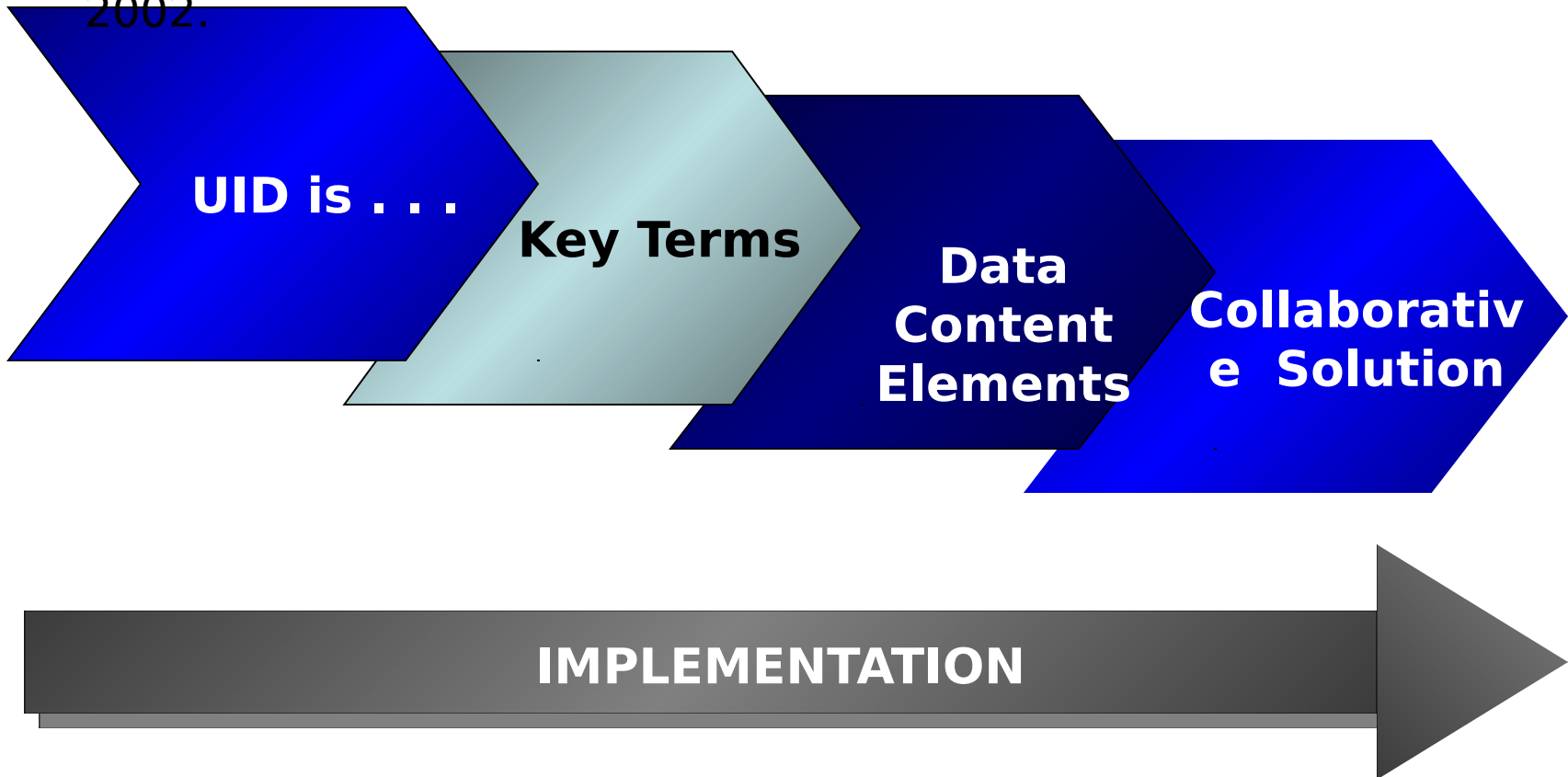
---

- The Department of Defense (DoD) established a joint international/industry/government Integrated Product Team (IPT) to achieve the following goals:
  - Identify the UID data standard
  - Develop a feasible and rapid implementation strategy
- The IPT consists of four simultaneous efforts:
  - Standards
  - Implementation Strategy
  - Policy
  - UID DFAR Cases



# Key Decisions to Date

The IPT Standards effort has agreed to the following elements since the first DoD policy memo was published in August of 2002.





# Unique **ID**entification (**UID**) is....

---

---



**UID is . . .**

**. . . the set of data for tangible assets that is globally unique and unambiguous, ensures data integrity and data quality throughout life, and supports multi-faceted business applications and users.**



# Key Terms

- **Enterprise:** Entity responsible for assigning the unique identifier (UID) to a tangible asset.
- **Registration (or Controlling) Authority:** Organization responsible for assigning a non-repeatable identifier to an enterprise.
- **Enterprise Identifier:** Code uniquely assigned to an enterprise by a registration (or controlling) authority.
- **Serial Number:** Code assigned by the enterprise to an item providing for differentiation of that item from any other like or unlike item. Serial numbers can be unique within the enterprise or unique within the part number.
- **Part Number:** Code assigned by the enterprise to a class of items with the same form, fit, function, and interface. The part number is original if assigned at asset birth and current if reassigned from the original.





# Data Content Elements

---

- For items that are serialized within the enterprise, the UID is a combination of the **enterprise identifier** and a **serial number** that is unique within the enterprise
- For items that are serialized within the part number, the UID is a combination of the the **enterprise identifier**, the **serial number**, and the **original part number**



# Data Content Elements

	UID Construct #1	UID Construct #2
Based on current enterprise configurations	If items are serialized within the Enterprise:	If items are serialized within Part Number:
UID is derived by concatenating the data elements IN ORDER:	Enterprise ID Serial Number	Enterprise ID Serial Number Original Part Number
Data on Assets Not Part of the UID (Separate Data Elements)	Current Part Number	Current Part Number

- Samples of how the unique identifier may be constructed will be included in the policy memo for clarification



# Item Identification Requirements - Construct #1

The following illustrates the requirement for uniquely identifying items at birth

<b>EID</b>	370521			<b>A</b>	Datamatrix Contains EID & Serial No. <i>"One Pass Read" Never Changes</i>
<b>Serial Number</b>	786950				
<b>Original Part Number</b>	1234			<b>B</b>	Datamatrix Contains EID, Serial No. & Original Part No. <i>"One Pass Read" Could Change</i>

If the part number rolls, elements in "A" do not change "C" illustrates a new identifier

<b>EID</b>	370521				
<b>Serial Number</b>	786950				
<b>Current Part Number</b>	5678			<b>C</b>	Datamatrix Contains EID, Serial No. & Current Part No. <i>"One Pass Read" Changed</i>

Note: This example illustrates the use of bar code symbology. Other AIT media such as RFID or Contact Memory Buttons could also be used.



# Item Identification Requirements - Construct #2

The following illustrates the requirement for uniquely identifying items at birth

<b>EID</b>	370521			<b>A</b> Datamatrix Contains EID, Serial No. & Original Part No. <i>"One Pass Read" Never Changes</i>
<b>Serial Number</b>	786950			
<b>Original Part Number</b>	1234			
<hr/>				<b>B</b> Datamatrix Contains EID, Serial No. & Original Part No. <i>"One Pass Read" Could Change</i>
<b>Original Part Number</b>	1234			

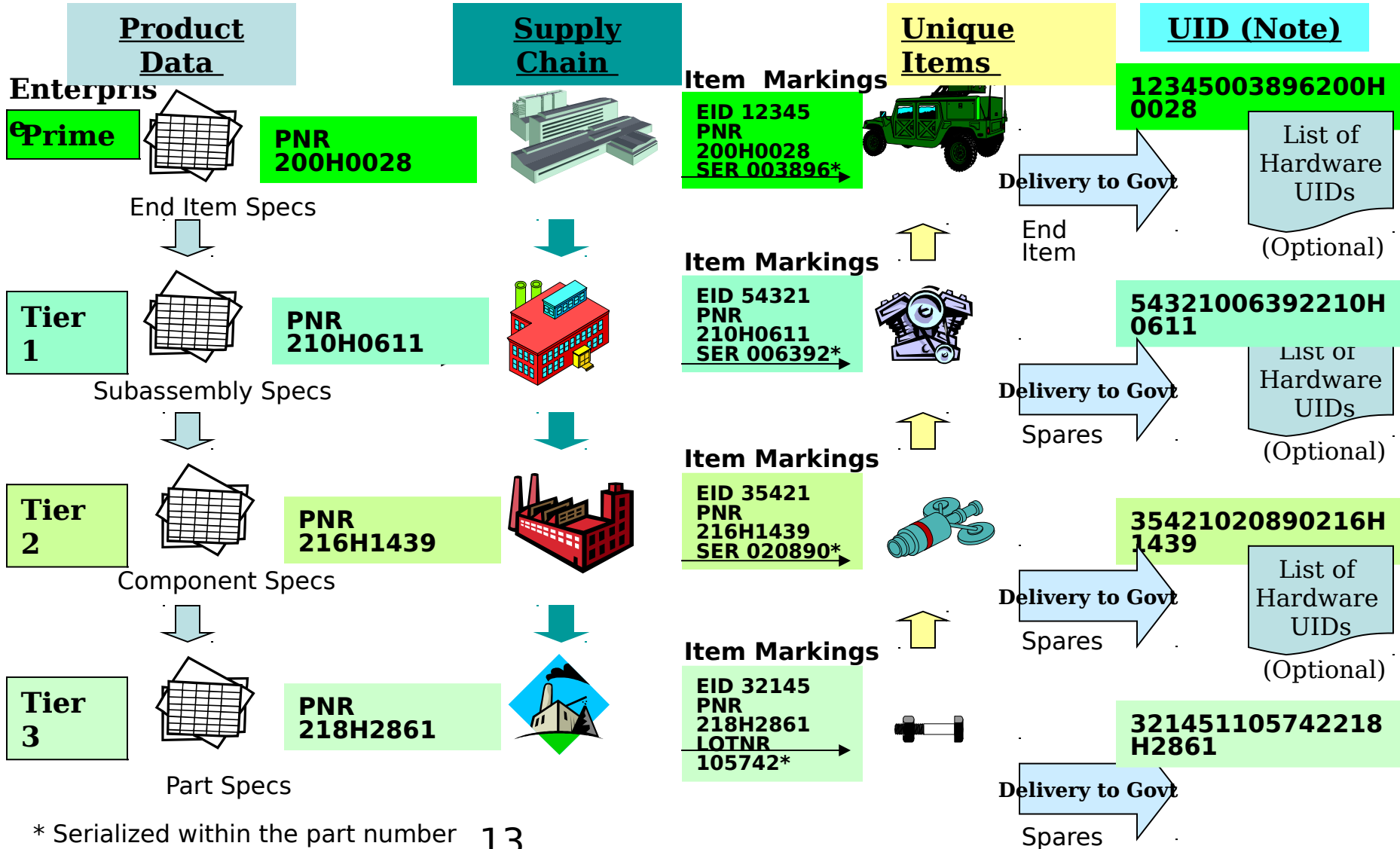
If the part number rolls, elements in "A" do not change "C" illustrates a new item identifier

<b>EID</b>	370521			<b>A</b> Datamatrix Contains EID, Serial No. & Original Part No. <i>"One Pass Read" Never Changes</i>
<b>Serial Number</b>	786950			
<b>Original Part Number</b>	1234			
<hr/>				<b>C</b> Datamatrix Contains EID, Serial No., Original Part No. & <b>Current</b> Part No. <i>"One Pass Read" Changed</i>
<b>Current Part Number</b>	5678			

Note: This example illustrates the use of bar code symbology. Other AIT media such as RFID or Contact Memory Buttons could also be used.



# What Does it Mean for Me?



\* Serialized within the part number 13



# What Does it Mean for Me?

---

- UID will be a mandatory requirement for all new weapons systems programs, including major modifications, no later than July 2003 and apply to contracts awarded after 1 Jan 2004
- Because the July 2003 policy memo will be published prior to reaching a conclusion to the ISO amendment process, the policy will provide direction for implementing UID in the interim



# How Can You Help?

- Sign the Pledge of Support
- Support and participate in the ISO amendment process
- Contribute to the development and execution of an implementable strategy

A variety of UID background materials and previous UID policy memos can be found at

[www.acq.osd.mil/uid](http://www.acq.osd.mil/uid)